

TROUBLE SHOOTING GUIDE

If you've installed and connected the unit as per the instructions listed earlier and it doesn't work properly, use the following table as a guide to fixing the problem. Look up the type of fault in the left column and check the possible causes from the right column.

#	Fault	Possible Causes
1	Red LED not lit	AC supply not connected; or AC supply turned off; or Battery plug not connected to battery pack; or Test switch damaged
2	Red LED is lit but AC lamp not lit when connected to mains	Switch active supply turned off; or Missing loop from unswitched to switched active; or Lamp damaged; or Lamp not inserted properly
3	LED is lit but lamp doesn't come on when test switch is pressed	Lamp damaged; or Lamp not inserted properly; or Battery pack damaged; or Test switch damaged
4	Lamp is lit momentarily when test switch is pressed; or when mains fail	Battery not fully charged (allow up to 24 hours); or Battery pack damaged

If the unit still doesn't work after checking these possible causes, contact Thomas & Betts Service in Australia on 1300 666 595, Monday to Friday, 8.30am to 4.30pm (AEST) and ask for help. Our trained service personnel will usually be able to take your call immediately and assist you in resolving your difficulty. Thomas & Betts is committed to providing valuable Through-Life Support for its products.

Doc No: 29-01025

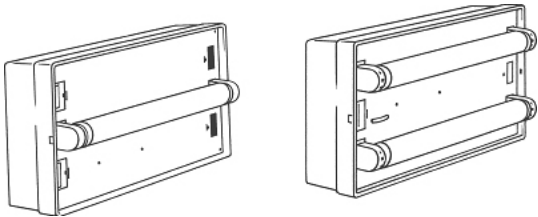
Thomas & Betts

A Member of the ABB Group

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Economy Exit  
 Installation Manual  
 EE110M, EE110N, EE210S

Contents
Electrical Safety Warning
Installation Instructions
Removal Method
Testing Precautions
Trouble Shooting Guide
Warranty Information (Included)



GREETINGS

Congratulations on choosing to use this Thomas & Betts product covered by our unique Through-Life Support system. This document is designed to assist you during the installation of this product, so for the safety of yourself and others **Thomas & Betts recommends that you read this document thoroughly before commencing installation.**

The Economy Pictograph Exits are designed to be installed quickly and easily. These are advanced pieces of electronic equipment and when treated with due care and maintained through regular and appropriate servicing, will perform without trouble for many years to come.

SAFETY WARNING

In Australia and New Zealand, only licensed electricians are permitted by law to work with 240 Volt electrical installations. Do not attempt to install or connect this product unless you are a licensed electrician.  
 Turn off and isolate the electrical supply before connecting this fitting to the building wires.  
 Do not touch the terminals of the terminal block when the light fitting is energised.  
 The only user serviceable parts are the lamp/s and battery pack.  
 Do not tamper with the fitting or the warranty will be void.  
 As the installer, it is your responsibility to ensure compliance with all relevant building and safety codes, (ie: AS3000, AS/NZS2293). Refer to the applicable standards for data and mains cabling installation procedures and requirements.

**INSTALLATION INSTRUCTIONS**

To install Stanilite Economy Pictograph Exit, follow these steps:

1. Remove the unit from the packing box and inspect it for damage or imperfections. If any damage is found, do not install the unit, replace it carefully into the packing box and notify the Thomas & Betts Product Support Hotline in Australia on 1300 666 595.
2. If all looks okay, proceed with the installation. Separate the gear tray from housing body; use a pencil to mark the position of mounting screw holes for the Economy Exit.

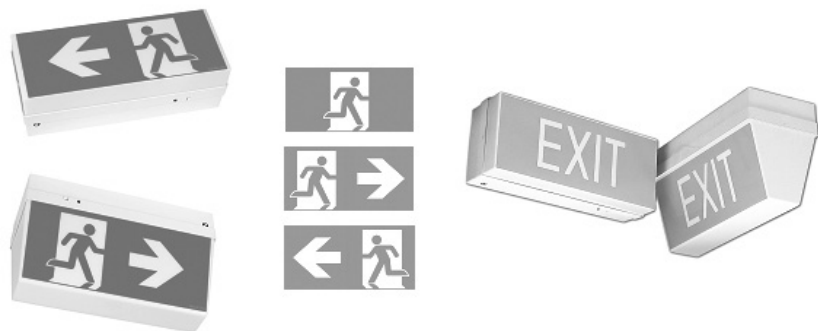


Figure 1: Economy Exit Wall and Ceiling Mount Diffuser Installed

3. Fit test switch and LED on its location on the gear tray. Route the mains cable through the cable entry hole.

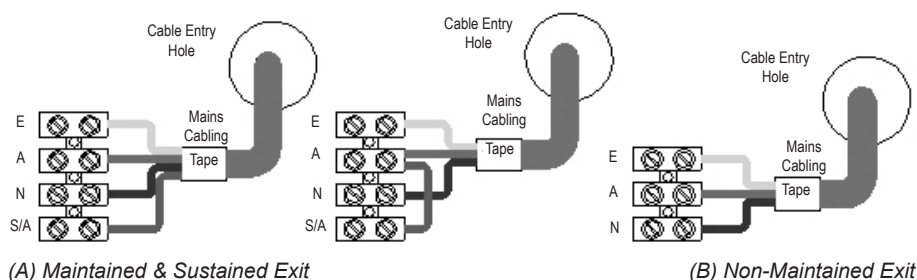


Figure 2: Mains Wiring Connection Economy Exit

4. Strip and connect the Mains cable as shown in Figure 2 using suitably sized screwdriver. Secure the mains cable with the tape.

The **unswitched active** wire connects to the terminals marked **A** or **US/A**.

The **switched active** wire connects to the terminal marked **S/A**.

The **neutral** wire connects to the terminal marked **N**.

The **earth** wire connects to the terminal marked **E** or with earth label.

Note: For permanent illumination in a maintained or sustained unit where no separate switched active is present loop link between SA and USA (refer above figure in the middle).

Ensure that the stripped wire ends are completely inserted into the terminal block and no bare conductors are exposed. You can also protect mains cable with a grommet, gland or bush as they pass through the cable entry hole. Be careful with multi-strand conductors make sure that all of the strands are twisted together before insertion into the terminal block. Plug the mains cable wire assembly from housing body to the gear tray. Replace the gear tray back on the housing body and secure with the four screws provided with the unit.

5. Fit the fluorescent lamp/s and required diffuser. **The recommended replacement lamp is PHILIPS, NEC or GE.**
6. Lamp operation

**Maintained Exit:** Once powered up, in a maintained exit the normal AC lamp (if present) should lights up and stays on until the switched active supply fails. The emergency function of the unit should only operate when the unswitched active power supply fails or when somebody presses the manual test button located on the side of the fitting. Normal status of the fitting when powered indicating LED steady red. This indicates that the power is connected and the battery is charging.

**Sustained Exit:** Once powered up, in a sustained exit the normal AC lamp (if present) should lights up and stays on until the switched active supply fails. The emergency lamp should only operate when the unswitched active power supply fails or when somebody presses the manual test button located on the side of the unit. Normal status of the fitting when powered indicating LED steady red. This indicates that the power is connected and the battery is charging.

**Non-maintained Exit:** Once powered up, in a non-maintained exit the present lamp stays off. The emergency function of the unit should only operate when the unswitched active power supply fails or when somebody presses the manual test button located on the side of the unit. Normal status of the fitting when powered indicating LED steady red. This indicates that the power is connected and the battery is charging.

7. Check the operation of the unit to ensure that the installation was successful. When powered up, allow a few minutes to give the battery a small charge, then press the manual test button located on the side of the unit. Press and hold the test button for a few seconds and observe that the emergency lamp lights up and stays on until the test switch is released. If the lamp works only momentarily, this ensures that the connections are correct and the battery requires at least 16 hours to fully charge. If the lamp doesn't work at all, check the supply, the connections and the trouble shooting guide at the end of this document.

**TO REMOVE THE UNIT FROM THE MOUNTING BRACKET**

Before removing the installed unit, switch off the mains supply to the unit. Remove the diffuser and then remove the gear tray by unscrewing four screws using suitably size screwdriver. Unplug the mains cable plug from the printed circuit board to separate gear tray from housing body. Unscrew the unswitched active, switched active, neutral and earth cable connection from the terminal block and then unscrew the mounting screws. When the unit is reconnected to the supply, it will need time to recharge its battery before it will be capable of a full length discharge again.

**TESTING PRECAUTIONS**

If the unit is to be left permanently connected to the mains supply from now on, you will need to allow 24 hours to charge its battery and then you will have to conduct a manual discharge test as per the requirements of AS/NZS2293.2. Presently (at the time of writing), the standard requires that new units operate in emergency mode for at least 2 hours for their first test. Subsequent tests are required every 6 months; units are then required to operate for not less than 90 minutes. You will need to keep records of the initial test into the building emergency service logbook.

If the unit isn't permanently connected to mains supply at this time, you are responsible for giving it the initial 2 hour test when you do connect it permanently to the mains supply.

**CONSTRUCTION SITES**

Continuously switching on and off the mains supply to the unit's during the installation process (due to building works or for some other reason), could cause the unit's to discharge and charge their batteries many times over a short period which may shorten the life of the battery. Thomas & Betts does not recommend such practices and may not honour any warranty on the life of the batteries or the lamp when subjected to such harsh operating conditions. The unit's are designed to be regularly discharge tested once every 6 months as per AS/NZS2293.2. In order to prevent damage to the battery, leave the unswitched active circuit turned off at the circuit breaker, until the emergency lighting is required on the site.